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The Innovative Library Classroom (TILC)  
Conference

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## Designing Augmented Reality for Library Instruction

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# Designing Augmented Reality for Library Instruction

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Augmented Reality (AR) is an interactive experience that overlays digital information (images, videos, sounds, etc.) over the real world that is being viewed through a device.

AR experiences can be designed in different ways. One way is to use trigger images. Trigger images are images that prompt the AR to appear. Overlays are the AR content that appears when the trigger is scanned. A common example of this is QR codes. Other experiences can be created to appear over any scene, no trigger image required. A common example of this is social media filters.

The Instructional Materials Center (IMC) is a department within Belk Library that serves Appalachian State's College of Education. I created an AR scavenger hunt using the app HaloAR to give students practice navigating the IMC collection. The following is an outline of steps to take to create a similar experience.

Scan to see a screen recording of this AR experience



When selecting a tool to create an AR experience consider:

- Price of app (free)
- Number of projects/experiences allowed in free version
- Ability to create custom trigger images
- Do students need to create an account to participate?

Apps to consider:

- HaloAR
- Blippar
- Overly
- WebAR Studio
- Assemblr
- There are many more

List skills that students should learn, then create activities to practice each skill.

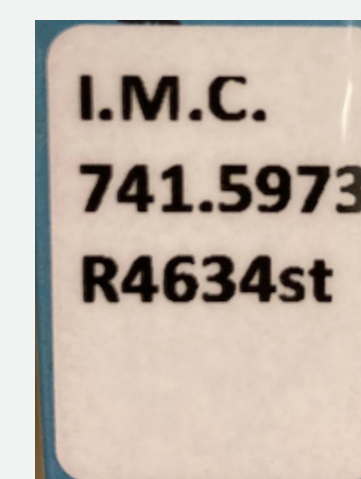
Outline the scavenger hunt by writing a "clue" to direct students to complete each activity. Each clue will be answered by scanning an image.

Example Clue: Your instructor asked you to read the graphic novel *Stuntboy, in the Meantime* by Jason Reynolds. Locate the book on the shelf, and scan the call number on the spine.

After the activity is outlined, create trigger images and overlays.

Triggers should be unique, like a call number, book cover, sign, etc.

For a scavenger hunt, trigger images are the answers to the previous clue, and the overlay is the next clue.



Example Trigger Image

Did you know Jason Reynolds has books in the Fiction section as well?  
  
He wrote the book *Ghost*. Find this book and scan the Belk Library barcode in the back of the book.

Example Overlay

Create a printed answer key should any items be checked out or if an item does not scan properly.

Have library devices available with the app downloaded.

If an item that needs to be scanned has multiple copies, the trigger image must be on each item.

If completing the activity during class time, have small groups start at different times.

